

November 7 - 13, 2003

<P>The Terra spacecraft is in nominal mode. All instruments are in Science Mode.</P>

<P>The Solid State Recorder (SSR) Anomaly Investigation Team met on Wednesday, November 12, 2003, continuing the investigation of the string of SSR Printed Wire Assembly (PWA) anomalies that occurred on July 30, Sept. 24-25, and Oct. 14, 2003. The AETD radiation branch announced a preliminary conclusion that a Total Ionizing Dose is not likely to be the root cause of the PWA anomalies, based upon assessment of DRAM component histories and the fact that recurrent problems were not experienced with the PWA recovered in the power recycle necessitated as a result of the SSR lockup anomaly in 2001.</P>

<P>The procedure and risk assessment in association with potential recycle of the Data Memory Unit (DMU) boards to attempt to reacquire use of the affected PWAs is in development. A preliminary Command Authorization meeting (CAM) covering the recycle is planned for November 17. There is no firm date for the DMU recycle, but preliminary results from the risk assessment indicate very minimal risk associated with the activity. The power recycle performed in 2001 involved a much more extensive procedure and required upload of numerous SSR firmware patches, and this proceeded very smoothly.</P>

<P>Plans:

The lunar calibration roll maneuver planned for MODIS in November will not be conducted due to the fact that it would need to occur close to one of the predicted peaks of the Leonid meteor shower. Extra on-line and off-line support for Terra in the EOS Operations Center (EOC) is to be provided in proximity to the two predicted peaks of the Leonid meteor shower.</P>

<P>The total solar eclipse of November 23 will be a partial eclipse from the Terra perspective, but a Command Authorization Meeting (CAM) will be conducted approximately 24 hours prior to the eclipse to cover the special activities required, as a high percentage of the Sun's disk will be eclipsed from the Terra perspective.</P>